

**AMENDMENTS TO THE SPECIFICATION**

**Please replace the present title with the following amended title:**

**SIGNAL PROCESSING SYSTEM FOR A POINTING INPUT DEVICE**

**Please replace the paragraph bridging pages 8 and 9 with the following amended paragraph:**

The invention ~~disclosed in Claim 1~~ is a signal processing system for processing signals outputted from a pointing device, the pointing device comprising a detection means capable of outputting respective detection signals outputted by operating an operation console in plus and minus directions, along an x-axis and/or y-axis thereof, respectively, in such a way as to identify whether an operation is in either the plus direction or the minus direction, along the x-axis and/or y-axis, respectively, or in both the plus and minus directions, along the x-axis and/or y-axis, respectively, a first outputting means for fetching the detection signals outputted by the operation in either the plus direction or the minus direction, along the x-axis and/or y-axis, respectively, from the detection means, and a second outputting means for fetching the detection signals outputted by the operations in both the plus and minus directions, along the x-axis and/or y-axis, respectively, wherein the signal processing system processes the output signal of the first outputting means as a shifting operation signal of a pointer, and processes an output signal of the second outputting means as a clicking operation signal of the pointer.

**Please replace the first full paragraph on page 9 with the following amended paragraph:**

The invention ~~disclosed in Claim 2~~ is the foregoing signal processing system ~~in Claim 1~~, characterized in that said detection means comprises a first resistance element which is changed in resistance value in response to a load applied to the device by operating the operation console in the plus direction along the x-axis and/or y-axis, and a second resistance element which is serially connected to the first resistance element and changed in resistance value in

response to a load applied to the device by operating the operation console in the minus direction along the x-axis and/or y-axis, wherein a power supply is fed to one end of the serially connected circuits, and a terminal connected to a node between the resistance elements forms the first output means, while a terminal connected to the end of a power supply side of the serially connected circuits forms the second output means.

**Please replace the paragraph bridging pages 9 and 10 with the following amended paragraph:**

The invention disclosed in ~~Claim 3~~ is the foregoing signal processing system in ~~Claim 1~~, characterized in further comprising a first switching circuit for switching over between the shifting operation signal in the x-axis direction and the shifting operation signal in the y-axis direction to thereby output the switched shifting operation signal, a first operational amplifier for amplifying the shifting operation signal in the x-axis direction and the shifting operation signal in the y-axis direction, respectively, outputted from the first switching circuit, a second operational amplifier for amplifying the clicking operation signal, a second switching circuit for switching over between the output signals of the first and second amplifiers to thereby output the switched output signal, and a controller for controlling the first and second switching circuits, wherein the controller executes control of switchover so that the first switching circuit outputs the shifting operation signal in the x-axis direction and the shifting operation signal in the y-axis direction alternately for every predetermined period, and the second switching circuit outputs the output signals of the first and second amplifiers alternately for every predetermined period.

**Please replace the paragraph bridging pages 10 and 11 with the following amended paragraph:**

The invention disclosed in ~~Claim 4~~ is the foregoing signal processing system in ~~Claim 1~~, characterized in further comprising switching circuits for switching over between the shifting operation signal in the x-axis direction and the shifting operation signal in the y-axis direction, and the clicking operation signal to thereby output the switched signal, amplifiers for amplifying

the shifting operation signal in the x-axis direction, the shifting operation signal in the y-axis direction, and the clicking operation signal, respectively outputted from the switching circuits, and a controller for controlling the switching circuits, wherein the controller executes control of switchover such that the switching circuits output the shifting operation signal in the x-axis direction, the shifting operation signal in the y-axis direction and the clicking operation signal circularly for every predetermined period.

**Please replace the first full paragraph on page 11 with the following amended paragraph:**

The invention ~~disclosed in Claim 5~~ is the foregoing signal processing system ~~in Claim 1~~, characterized in further comprising a first amplifier for amplifying the shifting operation signal in the x-axis direction, a second amplifier for amplifying the shifting operation signal in the y-axis direction, a third amplifier for amplifying the clicking operation signal, switching circuits for switching over between output signals of the first to third amplifiers to thereby output the switched signal, and a controller for controlling the switching circuits, wherein the controller executes control of switchover so that the switching circuits output the shifting operation signal in the x-axis direction, the shifting operation signal in the y-axis direction and the clicking operation signal circularly for every predetermined period.

**Please replace the second full paragraph on page 11 with the following amended paragraph:**

The invention ~~disclosed in Claim 6~~ is the foregoing signal processing system ~~in Claim 1~~, characterized in further comprising a current mirror circuit for copying the clicking operation signal.

**Please replace the paragraph bridging pages 11 and 12 with the following amended paragraph:**

The invention ~~disclosed in Claim 7~~ is the foregoing signal processing system ~~in Claim 6~~, characterized in further comprising a first amplifier for amplifying the shifting operation signal

in the x-axis direction, a second amplifier for amplifying the shifting operation signal in the y-axis direction, a current-voltage converter for converting an output current of the current mirror circuit into a voltage, a third amplifier for amplifying an output signal of the current-voltage converter, switching circuits for switching over output signals of the first to third amplifiers to thereby output the switched signal, and a controller for controlling the switching circuits, wherein the controller executes control of switchover between the output signals of the first to third amplifiers so that the switching circuits output the shifting operation signal in the x-axis direction, the shifting operation signal in the y-axis direction and the clicking operation signal circularly for every predetermined period.

**Please replace the paragraph bridging pages 12 and 13 with the following amended paragraph:**

The invention ~~disclosed in Claim 8~~ is the foregoing signal processing system ~~in Claim 6~~, characterized in further comprising a first amplifier for amplifying the shifting operation signal in the x-axis direction, a second amplifier for amplifying the shifting operation signal in the y-axis direction, switching circuits for switching over between output signals of the first and second amplifiers to thereby output the switched signal, an oscillator which is changed in oscillation frequency in response to an output current of the current mirror circuit, a frequency measuring circuit for measuring the oscillation frequency of the oscillator, and a controller for controlling the switching circuits, wherein the controller executes control of switchover between the output signals of the first and second amplifiers so that the switching circuits output the shifting operation signal in the x-axis direction and the shifting operation signal in the y-axis direction alternately for every predetermined period.

**Please replace the first full paragraph on page 13 with the following amended paragraph:**

#### EFFECT OF INVENTION

According to the signal processing system of the invention, the pointer can execute the shifting operation input and the clicking operation input by use of a common type pressure-sensitive pointing device provided with the x-axis strain sensor and y-axis strain sensor, thereby

realizing enhancement in operability of the common type pointing device, and expansion in the function of the system. In addition, variation of the voltage to be fed to the first to third amplifier and switching circuits can be avoided even if the load applied to the current detection circuit doubling as the regulator is varied to thereby vary the output voltage due to the change in the resistance elements of the pointing device.